

GEAR DETAILS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



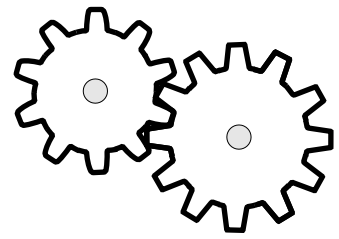
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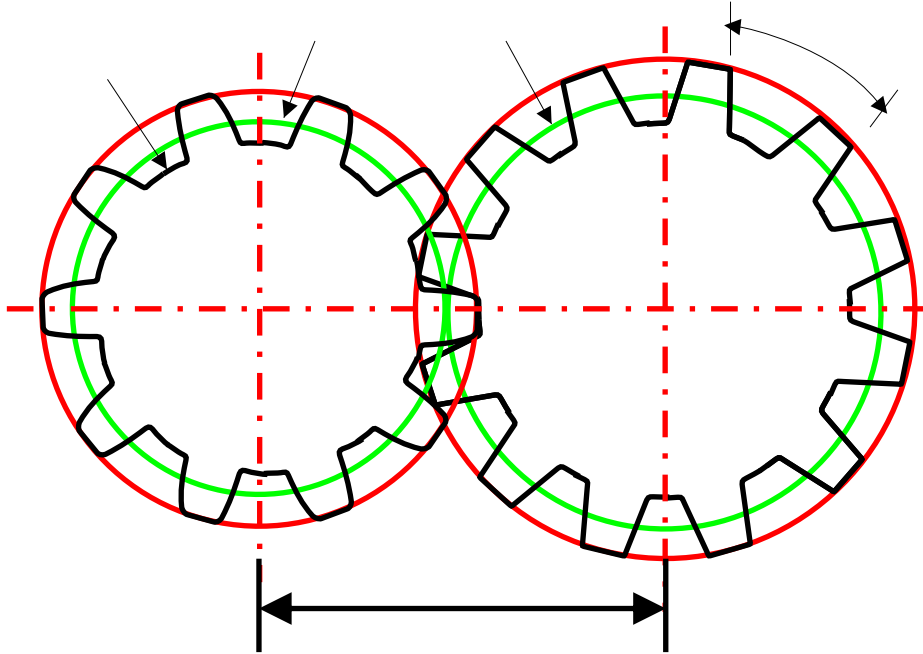
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1. Identify the ROOT, PITCH CIRCLE, PITCH AND CENTRE DISTANCE on the diagram drawn below.



2. Complete the paragraph by adding the following missing words/phrases:

PITCH CIRCLES

RATIO

ROOT

SPUR GEARS

PITCH

SHAPE

The gears above are known as _____. The circle marked in red shows the outer limit of the teeth whilst the green circles are known as the _____. The pitch circle of a gear is very important as it is used by engineers to determine the _____ of the teeth and the _____ between gears (ratios will be explained later).

The _____ of a gear is the distance between any point on one tooth and the same point on the next tooth.

The _____ is the bottom part of a gear wheel.

3. What is the PITCH POINT?

4. Mark the pitch point on the diagram drawn opposite.

5. Draw two spur gears meshing together (**Hint** - do not draw all the teeth, simply draw the gears with two circles representing each gear wheel - see earlier example)

